

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number  
**WO 2005/082554 A1**

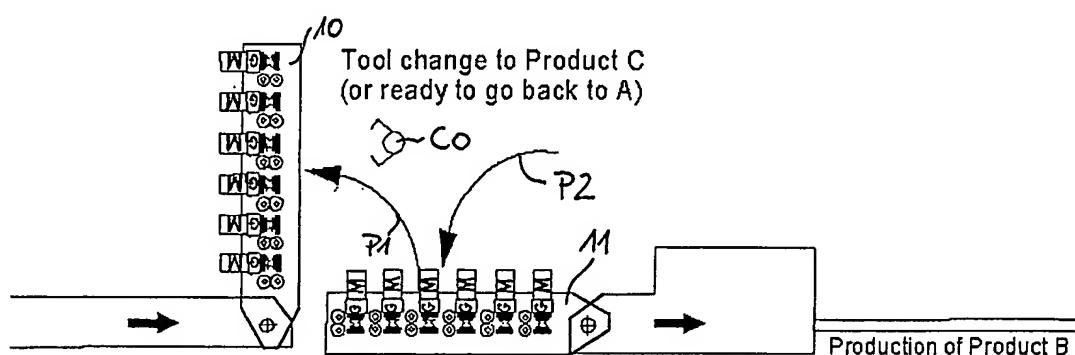
- (51) International Patent Classification<sup>7</sup>: **B21B 31/14**
- (21) International Application Number:  
**PCT/CH2005/000005**
- (22) International Filing Date: 6 January 2005 (06.01.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
04405120.9 1 March 2004 (01.03.2004) EP
- (71) Applicant (for all designated States except US): SCAMBIA INDUSTRIAL DEVELOPMENTS AG [LI/LI]; In Der Ballota 2a, FL-9494 Schaan (LI).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): VANLEENE, Paul [BE/BE]; Gelendel 65, B-2260 Voortkapel-Westerlo (BE).
- (74) Agent: A. BRAUN BRAUN HERITIER ESCHMANN AG; Holbeinstrasse 36-38, CH-4051 Basel (CH).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIP (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CHANGEOVER SYSTEM AND CHANGEOVER FOR A METAL FORMING MILL



WO 2005/082554 A1

(57) Abstract: A changeover system (1) for a metal forming mill, in particular for a tube-forming mill, comprises at least one pair of work modules (10, 11), the work modules of which are adapted to be pivoted (P1, P2) into and out of a line of work stations of the mill. Each work module (10, 11) has its own drive or drives. Within a pair of work modules the two work modules (10, 11) are arranged such, that when one work module (10;11) is arranged in the line of work stations the other one (11;10) is arranged off the line.